



PATENT
Attorney Docket No. A-68718-3
Attorney File No.: 463037-00219

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

KAYYEM *et al.*

Serial No. 10/904,175

Filed: July 11, 2001

For: *Devices and Methods for Biochip Multiplexing*

Examiner: FORMAN, Betty J.

Art Unit: 1634

CERTIFICATE OF MAILING

I hereby certify that this correspondence, including listed enclosures, are being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

Date: August 12, 2005

Signature 
Brent Yonellara

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
AND
STATEMENT OF RELATEDNESS**

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In satisfaction of the duty of disclosure under 37 C.F.R. § 1.56, and in accordance with the provisions of 37 C.F.R. §§ 1.97 and 1.98, Applicants wish to draw the attention of the U.S. Patent and Trademark Office to the references cited on the accompanying form PTO/SB/8A. In accordance with 1287 O.G. 163, 10/19/2004, no copies of U.S. patents and published applications are enclosed. Copies of all other foreign patents and non-patent literature are enclosed.

Further, in accordance with the provisions of 37 C.F.R. § 1.98(a)(3) and MPEP § 609(III)(A)(3), Applicant submits that reference nos. B1, B9, and B10 are not in the

08/16/2005 CNGUYEN2 00000014 10904175
02 FC1806 90 00.00 180.00 0P
4812-5376-2560_1

08/16/2005 CNGUYEN2 00000021 09904175
01 FC1806 180.00 0P

Serial No.: 09/904,175
Filed: July 11, 2001

English language and directs the Examiner's attention to the English language abstract of same enclosed herewith for a concise statement as to its relevance.

Further, in satisfaction of the duty of disclosure under 37 C.F.R. § 1.56, and as required by M.P.E.P. § 2001.06(b), Applicant notes that the present application is related to the following pending patent applications:

1. U.S.S.N. 09/760,384, filed January 11, 2001; U.S.S.N. 09/993,342, filed November 5, 2001; U.S.S.N. 10/412,660, filed April 11, 2003;
2. U.S.S.N. 09/440,371, filed November 12, 1999; U.S.S.N. 09/520,477, March 8, 2000; U.S.S.N. 09/712,792, filed November 13, 2000; U.S.S.N. 10/823,503, filed April 12, 2004; and
3. U.S.S.N. 09/295,691, filed April 21, 1999; U.S.S.N. 11/043,515, filed January 25, 2005.

Nothing herein shall constitute an admission concerning the contents of any of the cited references, nor shall the inclusion of a reference herein be considered an admission that the reference constitutes prior art against the invention claimed in the above-identified application. Submission of the present document shall not be construed as an admission that a search has been made or that better art does not exist.

Pursuant to 37 C.F.R. §1.97(c), enclosed is a check in the amount of \$180.00 as set forth in 37 C.F.R. §1.17(p). While no fee is believed to be due, if this belief is in error, the Commissioner is authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-2319 (File No.: 463037-00219; Docket No.: A-68718-3).

Serial No.: 09/904,175

Filed: July 11, 2001

Please direct further questions in connection with this Application to the
undersigned at (415) 781-1989.

Respectfully submitted,

DORSEY & WHITNEY LLP

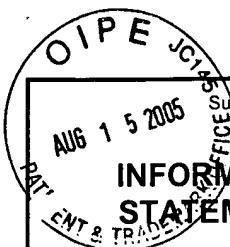
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Timothy A. Worrall, Reg. No. 54,552 for
Robin M. Silva, Reg. No. 38,304

Filed Under 37 C.F.R. § 1.34

Attachments: Form SB/08/A-B, substitute for Form PTO-1449
195 cited references



Substitute for form 1449A/PTO
(Modified)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	13	Attorney Docket Number	A-68718-3 (463037-00219)
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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	4,908,319	03-13-1990	Smyczek et al.	
	A2	4,945,045	07-31-1990	Forrest et al.	
	A3	5,038,852	08-13-1991	Johnson et al.	
	A4	5,100,775	03-31-1992	Smyczek et al.	
	A5	5,108,573	04-28-1992	Rubinstein et al.	
	A6	5,126,022	06-30-1992	Soane et al.	
	A7	5,126,034	06-30-1992	Carter et al.	
	A8	5,143,854	09-01-1992	Pirrung et al.	
	A9	5,147,607	09-15-1992	Mochida	
	A10	5,187,096	02-16-1993	Giaver et al.	
	A11	5,192,412	03-09-1993	Kambara et al.	
	A12	5,194,133	03-16-1993	Clark et al.	
	A13	5,200,051	04-06-1993	Cozzette et al.	
	A14	5,242,828	09-07-1993	Bergstrom et al.	
	A15	5,278,043	01-11-1994	Bannwarth et al.	
	A16	5,294,369	03-15-1994	Shigekawa et al.	
	A17	5,296,375	03-22-1994	Kricka et al.	
	A18	5,320,808	06-14-1994	Holen et al.	
	A19	5,360,741	11-01-1994	Hunnell	
	A20	5,391,272	02-21-1995	O'Daly et al.	
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	A22	5,474,796	12-12-1995	Brennan	
	A23	5,500,071	03-19-1996	Kaltenbach et al.	
	A24	5,532,128	07-02-1996	Eggers et al.	
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	A29	5,595,712	01-21-1997	Harbster et al.	
	A30	5,599,695	02-04-1997	Pease et al.	
	A31	5,601,982	02-11-1997	Sargent et al.	

Examiner Signature		Date Considered
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¹Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English Language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the complete application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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<p>Substitute for form 1449A/PTO (Modified)</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				Complete if Known	
				Application Number	09/904,175
				Filing Date	July 11, 2001
				First Named Inventor	DUONG, Hau
				Art Unit	1634
				Examiner Name	FORMAN, Betty J.
Sheet	2	of	13	Attorney Docket Number	A-68718-3 (463037-00219)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A32	5,605,662	02-25-1997	Heller et al.	
	A33	5,620,850	04-15-1997	Bamdad et al.	
	A34	5,631,734	05-20-1997	Stern et al.	
	A35	5,632,957	05-27-1997	Heller et al.	
	A36	5,653,939	08-05-1997	Hollis et al.	
	A37	5,657,208	08-12-1997	Noe et al.	
	A38	5,670,322	09-23-1997	Eggers et al.	
	A39	5,716,825	02-10-1998	Hancock et al.	
	A40	5,750,015	05-12-1998	Soane et al.	
	A41	5,755,942	05-26-1998	Zanzucchi et al.	
	A42	5,759,866	06-02-1998	Machida et al.	
	A43	5,837,832	11-17-1998	Chee et al.	
	A44	5,842,787	12-00-1998	Kopf-Sill et al.	
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	A54	5,874,046	02-23-1999	Megerle	
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	A56	5,891,630	04-06-1999	Eggers et al.	
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	A58	5,929,208	07-27-1999	Heller et al.	
	A59	5,935,401	08-10-1999	Amigo	
	A60	5,939,312	08-17-1999	Baier et al.	
	A61	5,942,443	08-24-1999	Parce et al.	
	A62	5,945,334	08-31-1999	Besemer et al.	

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	A63	5,958,791	09-28-1999	Roberts et al.	
	A64	5,965,452	10-12-1999	Kovacs	
	A65	5,971,355	10-26-1999	Biegelsen et al.	
	A66	5,985,119	11-16-1999	Zanzucchi et al.	
	A67	5,991,030	11-23-1999	Yamamoto et al.	
	A68	6,117,973	09-12-2000	Batz et al.	
	A69	6,288,221 B1	09-11-2001	Grinstaff et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	B1	DE 1 9725 190	12-17-1998	Innova GmbH	
	B2	EP 0 142 301	05-22-1985	Serono Diagnostics Limited	
	B3	EP 0 213 825	03-11-1987	Molecular Devices Corp	
	B4	EP 0 339 821 A1	11-02-1989	United Kingdom Atomic Energy Authority	
	B5	EP 0 854 362 A2	07-22-1998	Japan Science & Technology Corp	
	B6	EP 0 859 230 A1	08-19-1998	Cranfield University	
	B7	EP 0 870 541 A2	10-14-1998	Eastman Kodak Co.	
	B8	EP 0 969 083 A1	01-05-2000	Olympus Optical Co. Ltd.	
	B9	JP 11-183437 A	07-01-1999	Shimadzu Corp.	
	B10	JP 63-238166 A	10-04-1988	Mitsubishi Corp.	
	B11	WO 97/09337 A1	03-00-1997	Deutsches Krebsforschungszentrum Stiftung des Öffentlichen Rechts	
	B12	WO 98/50154 A1	11-00-1998	University of Minnesota	
	B13	WO 93/22053 A1	11-11-1993	The Trustees of the University of Pennsylvania	
	B14	WO 93/22678 A2/A3	11-11-1993	Massachusetts Institute of Technology	
	B15	WO 93/25898 A1	12-23-1993	Medisense, Inc.	

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	B16	WO 94/22889 A1	10-13-1994	Cis Bio International		
	B17	WO 95/11755 A1	05-04-1995	Houston Advance Research Center		
	B18	WO 97/12030 A1	04-03-1997	Nanogen, Inc.		
	B19	WO 97/27324 A1	07-31-1997	David Sarnoff Research Center		
	B20	WO 97/27473 A1	07-31-1997	Northwestern University		
	B21	WO 97/31256 A1	08-28-1997	Cornell Research Foundation, Inc.		
	B22	WO 97/36681 A1	10-09-1997	Perkin Elmer Corp.		
	B23	WO 97/41425 A1	11-06-1997	Pence, Inc.		
	B24	WO 97/44651 A1	11-27-1997	Australian Membrane and Biotechnology Institute		
	B25	WO 98/01758 A1	01-15-1998	Nanogen, Inc.		
	B26	WO 98/15893 A1	04-16-1998	Advanced Risc Mach Ltd.		
	B27	WO 98/27229 A1	06-25-1998	University of Chicago		
	B28	WO 98/28444 A2/A3	07-02-1998	University of Chicago		
	B29	WO 98/43739 A2/A3	10-08-1998	Biosite		
	B30	WO 98/49344 A1	11-05-1998	Lockheed Martin Energy Research Corp.		
	B31	WO 98/49557 A1	11-05-1998	B-E Safe, Inc.		
	B32	WO 99/07879 A1	02-18-1999	Fraunhofer Inst. Siliziumtechno, Univ. of Souther CA		
	B33	WO 99/14596 A1	03-25-1999	AB Sangtec Medical		
	B34	WO 99/17093 A1	04-09-1999	The Regents of the University of Michigan		
	B35	WO 99/26729 A1	06-03-1999	Universite de Montreal		
	B36	WO 99/29711 A1	06-17-1999	Nanogen, Inc.		
	B37	WO 01/34302 A2	05-17-2001	Motorola, Inc.		
	B38	WO 01/42508 A2	06-14-2001	Motorola, Inc.		
	B39	WO 01/54813 A2/A3	08-02-2001	Clinical Micro Sensors, Inc.		

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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ⁶
	C1	AIZAWA, M., et al., "Integrated molecular systems for biosensors," <i>Sens. Actuators B Chem.</i> 24(1&3):1-5 (Mar. 1995).		
	C2	ALBERS, W., et al., "Design of novel molecular wires for realizing long-distance electron transfer," <i>Bioelectrochem. Bioenerg.</i> 42(1):25-33 (Apr. 1997).		
	C3	ALSFASSEN, R., et al., "Novel Building Blocks for Biomimetic Assemblies. Synthesis, Characterization, and Spectroscopic and Electrochemical Properties of New Bidendate Ligands Derived from Lysine and Cystine and Their Complexes with Bis(2,2'-bipyridine)ruthenium(II)," <i>Inorg. Chem.</i> 35(3):628-636 (Jan. 1996).		
	C4	ARKIN, M., et al., "Evidence for Photoelectron Transfer Through DNA Intercalation," <i>J. Inorg. Biochem. Abstr.</i> , 6th Int. Conf. Bioinorg. Chem. 51(1&2):526 (1993).		
	C5	ARKIN, M., et al., "Rates of DNA-Mediated Electron Transfer Between Metallointercalators," <i>Science</i> 273(5274):475-480 (Jul. 1996).		
	C6	BEATTIE, K., et al., "Advances in Genosensor Research", <i>Clin. Chem.</i> 41(5):700-706 (1995).		
	C7	BECKER, H., et al., "Microfluidic manifolds by polymer hot embossing for μ-TAS applications," <i>Micro Total Analysis Systems '98, Proc. μ-TAS '98</i> , pp. 253-256, Banff, BC, CA (Oct. 13 - 16, 1998).		
	C8	BELGRADER, P., et al., "Rapid pathogen detection using a microchip PCR array instrument," <i>Clin. Chem.</i> 10(44):2191-2194 (1998).		
	C9	BIGNOZZI, C., et al., "A simple poly(pyridine)ruthenium(II) photosensitizer: (2,2'-bipyridine)tetraacyanoruthenate(II)," <i>J. Am. Chem. Soc.</i> 108(24):7872-7873 (Nov. 1986).		
	C10	BILEWICZ, R., et al., "Monomolecular Langmuir-Blodgett films at electrodes: electrochemistry at single molecule 'gate sites'," <i>Langmuir</i> 11(6):2256-2266 (Jun. 1995).		
	C11	BJERRUM, M., et al., "Electron transfer in ruthenium-modified proteins," <i>J. Bioenerg. Biomembr.</i> 27(3):295-302 (Jun. 1995).		
	C12	BLONDER, R., et al., "Application of Redox Enzymes for Probing the Antigen-Antibody Association at the Monolayer Interfaces: Development of Amperometric Immunosensor Electrodes," <i>Anal. Chem.</i> 68(18):3151-3157 (Sep. 1996).		
	C13	BOWLER, B.E., et al., "Long-Range electron transfer in donor (spacer) acceptor molecules and proteins," <i>Prog. Inorg. Chem. Bioinorg. Chem.</i> 38:259-322 (1990).		
	C14	BRUN, A., et al., "Photochemistry of intercalated quaternary diazaaromatic salts," <i>J. Am. Chem. Soc.</i> 113(21):8153-8159 (Oct. 1991).		
	C15	BUMM, L.A., et al., "Are single molecular wires conducting?," <i>Science</i> 271(5226):1705-1707 (Mar. 1996).		
	C16	CARLSSON, C., et al., "Screening for genetic mutations," <i>Nature</i> 380(6571):207 (Mar. 1996).		
	C17	CARTER, M., et al., "Electrochemical investigations of the interaction of metal chelates with DNA. 3. Electrogenerated chemiluminescent investigation of the interaction of tris(1,10-phenanthroline)ruthenium(II) with DNA," <i>Bioconjug. Chem.</i> 1(4):257-263 (Jul. - Aug. 1990).		

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				Art Unit	1634
				Examiner Name	FORMAN, Betty J.
Sheet	6	of	13	Attorney Docket Number	A-68718-3 (463037-00219)

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	C18	CARUANA, D. J., et al., "Enzyme-amplified amperometric detection of hybridization and of a single base pair mutation in an 18-base oligonucleotide on a 7-μm-diameter microelectrode," <i>J. Am. Chem. Soc.</i> 121(4):769-774 (Feb. 1999).			
	C19	CHAILAPAKUL, O., et al., "Interactions between organized, surface-confined monolayers and liquid-phase probe molecules. 4. Synthesis and characterization of nanoporous molecular assemblies: mechanism of probe penetration," <i>Langmuir</i> 11(4):1329-1340 (Apr. 1995).			
	C20	CHARYCH, D., et al., "Direct colorimetric detection of a receptor-ligand interaction by polymerized bilayer assembly," <i>Science</i> 261(5121):585-588 (Jul. 1993).			
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	C23	CLARKE, P.R., et al., "Physical and chemical aspects of ultrasonic disruption of cells," <i>J. Acoustics Soc. Am.</i> 50(2):649-653 (Feb. 1970).			
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	C26	DHIRANI, A.A., et al., "Self-assembly of conjugated molecular rods: a high resolution STM study," <i>J. Am. Chem. Soc.</i> 118(13):3319-3320 (Apr. 1996).			
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	C28	DONG, S., "Self-assembled monolayers of thiols on gold electrodes for bioelectrochemistry and biosensors," <i>Bioelectrochem. Bioenerg.</i> 42(1):7-13 (1997).			
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	C30	DRMANAC, R., et al., "Sequencing of Megabase Plus DNA Hybridization: Theory of the Method," <i>Genomics</i> 4(2):114-128 (Feb. 1989).			
	C31	DROBYSHEV, A., et al., "Sequence analysis by hybridization with oligonucleotide microchip: identification of β-thalassemia mutations," <i>Gene</i> 188(1):45-52 (Mar. 1997).			
	C32	DUAN, C., et al., "Immobilization of proteins on gold coated porous membranes via an activated self-assembled monolayer of thioctic acid," <i>Mikrochim. Acta</i> 117:195-206 (1995).			
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	C35	DURHAM, B., et al., "Photoinduced electron-transfer kinetics of singly labeled ruthenium bis(bipyridine) dicarboxybipyridine cytochrome c derivatives," <i>Biochemistry</i> 28(21):8659-8665 (Oct. 1989).	
	C36	EGGERS, M., et al., "Genosensors: microfabricated devices for automated DNA sequence analysis," <i>Adv. DNA Sequencing Tech.</i> 1891:113-126 (1993).	
	C37	ELGHANIAN, R., et al., "Selective colorimetric detection of polynucleotides based on the distance-dependent optical properties of gold nanoparticles," <i>Science</i> 277(5329):1078-1081 (Aug. 1997).	
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	C50	GOODWIN, D., et al., "Microwave miniprep of total genomic dna from fungi, plants, protists and animals for PCR," <i>BioTechniques</i> 15(3):437-441 (1993).	
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	C53	HEGNER, M., et al., "Immobilizing DNA on gold via thiol modification for atomic force microscopy imaging in buffer solutions," <i>FEBS Lett.</i> 336(3):452-456 (Dec. 1993).			
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	C57	HOCHULI, E., et al., "New metal chelate adsorbent selective for proteins and peptides containing neighbouring histidine residues," <i>J. Chromatogr.</i> 411:177-184 (Dec. 1987).			
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	C59	HOLMLIN, R.E., et al., "Charge transfer through the DNA base stack," <i>Angew. Chem. Int. Ed. Engl.</i> 36(24):2714-2730 (Jan. 1998).			
	C60	HWANG, J-T., et al., "Synthesis of 2'-modified oligodeoxynucleotides via on-column conjugation," <i>J. Org. Chem.</i> 66(2):363-369 (Jan. 2002).			
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	C62	JENKINS, Y., et al., "A sequence-specific molecular light switch: tethering of an oligonucleotide to a dipyridophenazine complex of ruthenium (II)" <i>J. Am. Chem. Soc.</i> 114(22):8736-8738 (Oct. 1992).			
	C63	JIANG, L., et al., "Direct electron transfer reactions of glucose oxidase immobilised at a self-assembled monolayer," <i>J. Chem. Soc. Chem. Commun.</i> 12:1293-1295 (1995).			
	C64	JOHNSTON, D., et al., "Cyclic voltammetry: study of polynucleotide binding and oxidation by metal complexes homogeneous electron-transfer kinetics," <i>J. Phys. Chem.</i> 100(32):13837-13843 (Aug. 1996).			
	C65	JONSSON, U., et al., "Biosensors based on surface concentration measuring devices – The concept of surface concentration," <i>Prog. Colloid Polym. Sci.</i> 70:96-100 (1985).			
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	C67	KATZ, E., et al., "Electrical contact of redox enzymes with electrodes: novel approaches for amperometric biosensors," <i>Bioelectrochem. Bioenerg.</i> 42(1):95-104 (1997).			
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	C69	KELLEY, S. O., et al., "Electrochemistry of Methylene Blue Bound to a DNA-Modified Electrode," <i>Bioconjug. Chem.</i> 8(1):31-37 (Jan. - Feb. 1997).			
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	C71	KIM et al., "The Fabrication of Flow Conduits in Ceramic Tapes and the Measurement of Fluid Flow Through These Conduits," <i>Micro Total Analysis Systems '98, Proc. μ-TAS '98</i> , pp. 171-177, Banff, BC, (CA) (Oct. 13 - 16, 1998).	
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	C79	LEE, G., et al., "Direct measurement of the forces between complementary strands of DNA," <i>Science</i> 266(5186):771-773 (Nov. 1994).	
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	C81	LI, J., et al., "Viologen-thiol self-assembled monolayers for immobilized horseradish peroxidase at gold electrode surface," <i>Electrochim. Acta</i> 42(6):961-967 (1997).	
	C82	LINCOLN, P., et al., "Short-Circuiting the Molecular Wire: Cooperative Binding of Δ -[Ru(phen) ₂ dppz] ²⁺ and Δ -[Rh(phi) ₂ bipy] ³⁺ to DNA," <i>J. Am. Chem. Soc.</i> 119(6):1454-1455 (Feb. 1997).	
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	C86	McGEE, D., et al., "Novel nucleosides via intramolecular functionalization of 2,2'-anhydrouridine derivatives," <i>Tetrahedron Lett.</i> 37(12):1995-1998 (1996).	
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				Art Unit	1634
				Examiner Name	FORMAN, Betty J.
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